

ABSTRACT

Antennas of broadband and multi-band operation are presented. A broadband planar antenna includes two inverted-L antennas (ILAs) facing each other across a gap. One of the ILAs is input fed, and the other is electromagnetically coupled. The positioning of the gap affects the bandwidth. A dual-band planar antenna includes two ILAs facing each other across a gap with one of the ILAs being input fed, and the other being coupled. This dual-band planar antenna also includes a monopole antenna disposed between the two ILAs. A triple-band planar antenna includes two ILAs facing each other across a gap with one of the ILAs being input fed and the other IPA being coupled. This triple-band antenna also includes a monopole antenna disposed between the two ILAs, and a conductor extending horizontally from the monopole antenna towards, but not reaching the coupled ILA. Another dual-band antenna includes an inner cut loop antenna encompassed by an outer cut loop antenna. Each of the cut loop antennas includes two ILAs with one of the ILAs being input fed and the other being coupled.

Nora M. Tocups
Reg. 35,717
P.O. Box 698
Decatur, Georgia 30031-0698
ntocups@bellsouth.net
404.372.1430
Attorney Docket No. 2754